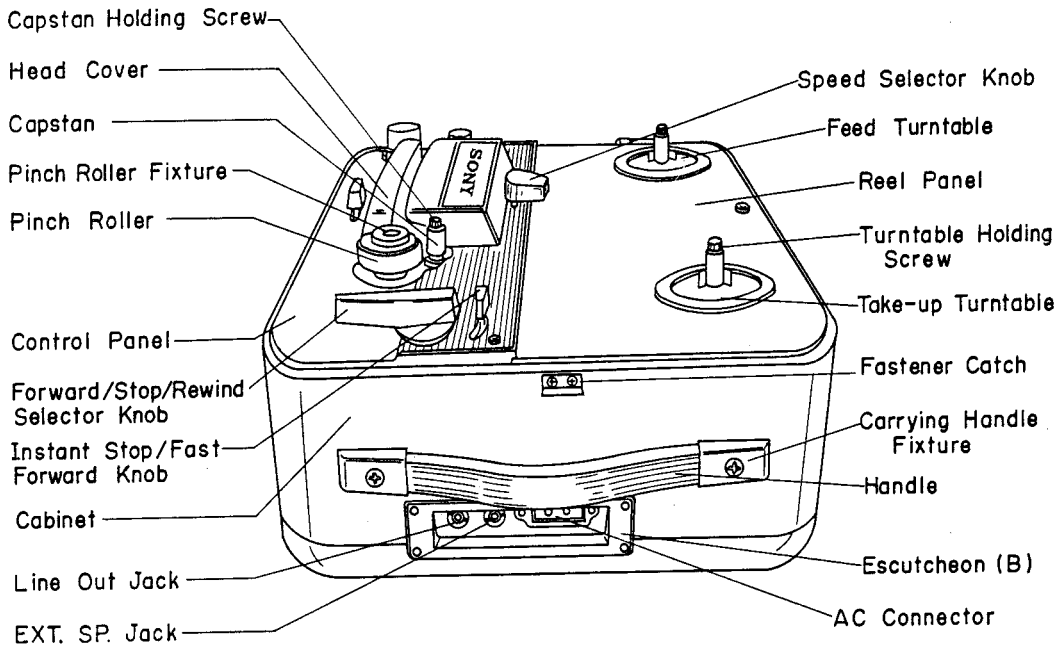
TC-102A

Specifications

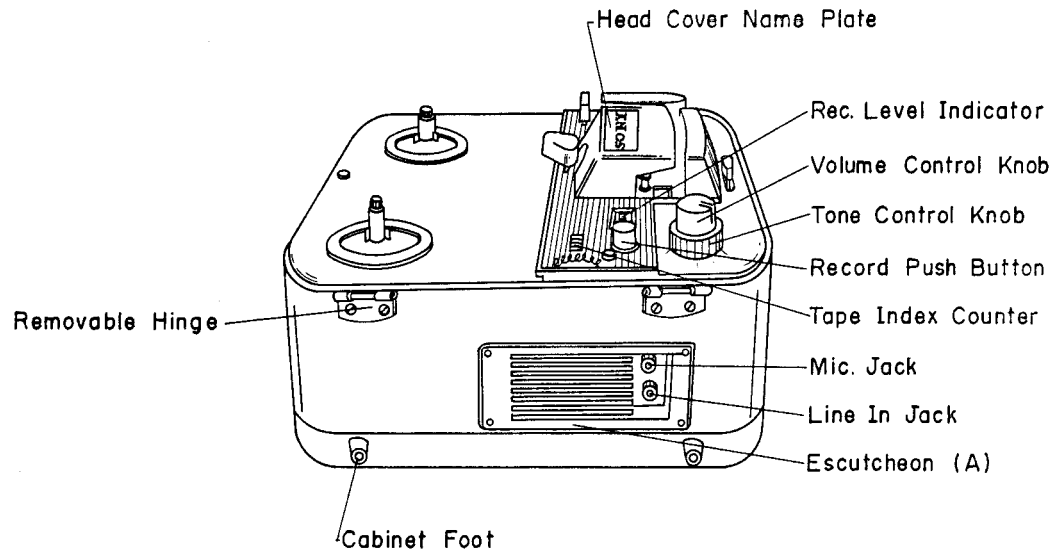
Power Requirement :	100, 110, 117, 125, 220 or 240 volts (Voltage selector provided in the set) AC 50 or 60 c/s ! convertible, see Page 5)
Tape Speeds :	Instantaneous selection 7-1/2 ips or 3-3/4 ips (19 or 9.5 cm/s)
Tracks :	Dual
Reel Size :	Up to 7″
Frequency Response :	50～13,000 c/s at 7-1/2 ips 50～8,000 c/s at 3-3/4 ips
Flutter and Wow :	Less than 0.2% RMS at 7-1/2 ips
Bias Frequency :	Approx. 55 Kc
Inputs :	Low impedance Microphone Input ...(1) High impedance Auxiliary Input .....(1)
Outputs :	High impedance Monitor Output .....(1) 8Ω External Speaker Output .....(1)
Speaker :	6″×4″ (15×10 cm) dynamic, 8Ω
Power Output :	Maximum 2 watts
Recording Time : (with 1800′ Tape)	45 minutes per track, 1.5 hours total at 7-1/2 ips 1.5 hours per track, 3 hours total at 3-3/4 ips
Tube Complement :	6AU6 (×1), 6AR5 (×1), 5MK9 (×1)
Transistor :	2SC318 (×1)
Dimensions :	13.4″ W×10.4″ D×7.5″ H (340 W×265 D×190 H mm)
Weight :	Approx. 18.3 lbs. (8.3 Kg) (without accessories)

SONY®

SERVICING GUIDE



(Fig. 1)



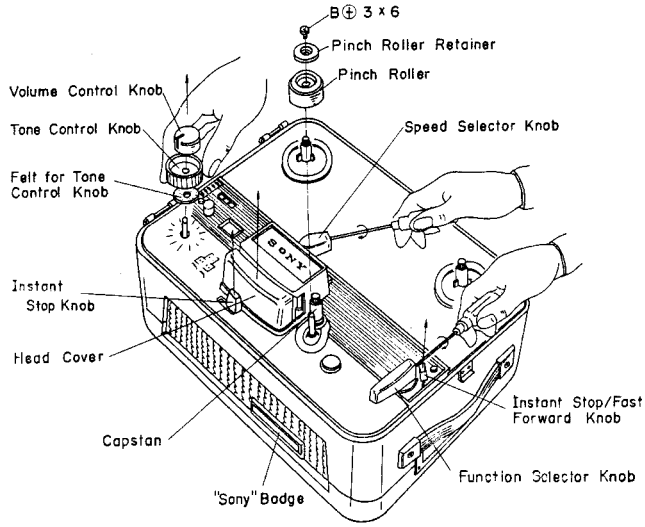
(Fig. 2)

Removal of Panels

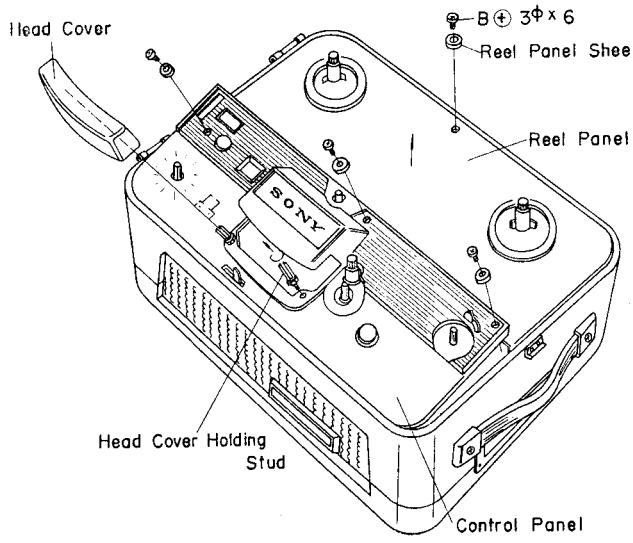
1. Remove Head Cover (without " SONY " on it), Volume Control Knob, Tone Control Knob, Felt for Tone Control Knob, Instant Stop Knob and Fast Forward Knob by pulling straight up as shown in Fig. 3.
2. Remove Speed Selector Knob and Function Selector Knob with 2 mm screw driver.
3. Remove Pinch Roller Holding Screw with 3 mm Phillips screw driver, and take off Pinch Roller Retainer and Pinch Roller.
4. Loosen and remove three screws holding control panel, and one screw on Reel Panel as shown in Fig. 4).

Removal of Cabinet

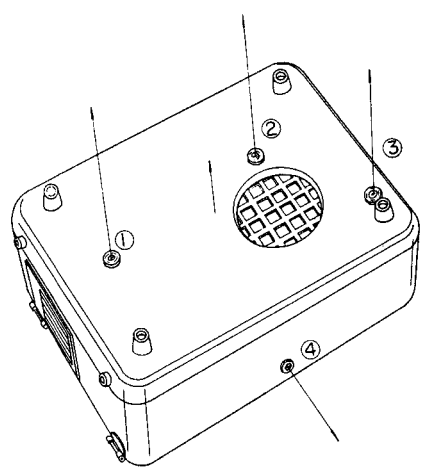
1. Turn over the recorder upside down on a soft pad.
2. Loosen and remove three securing screws (①, ② & ③ in Fig. 5) on the bottom of the Cabinet and one securing screw ④ in Fig. 5) on the back side.
3. Remove the set by holding up the Cabinet gently and carefully.
4. Unsolder the Speaker lead wires with a soldering iron.



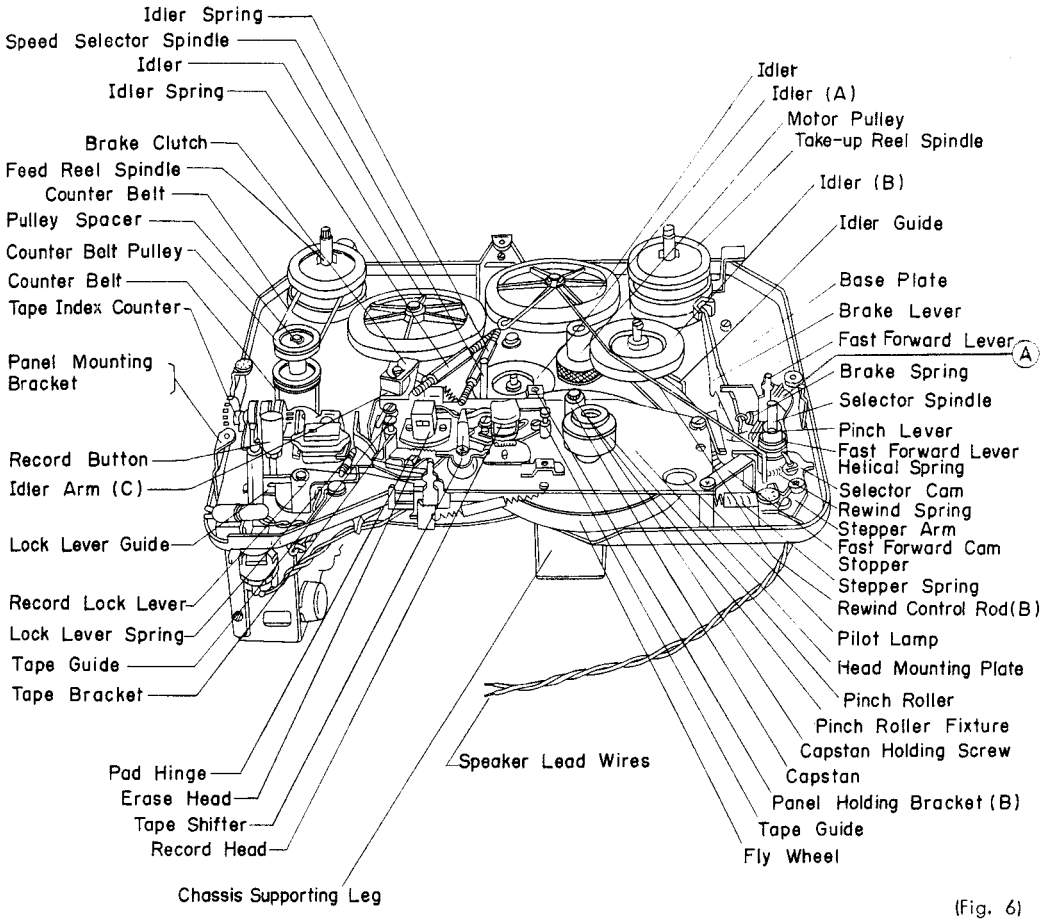
(Fig. 3)



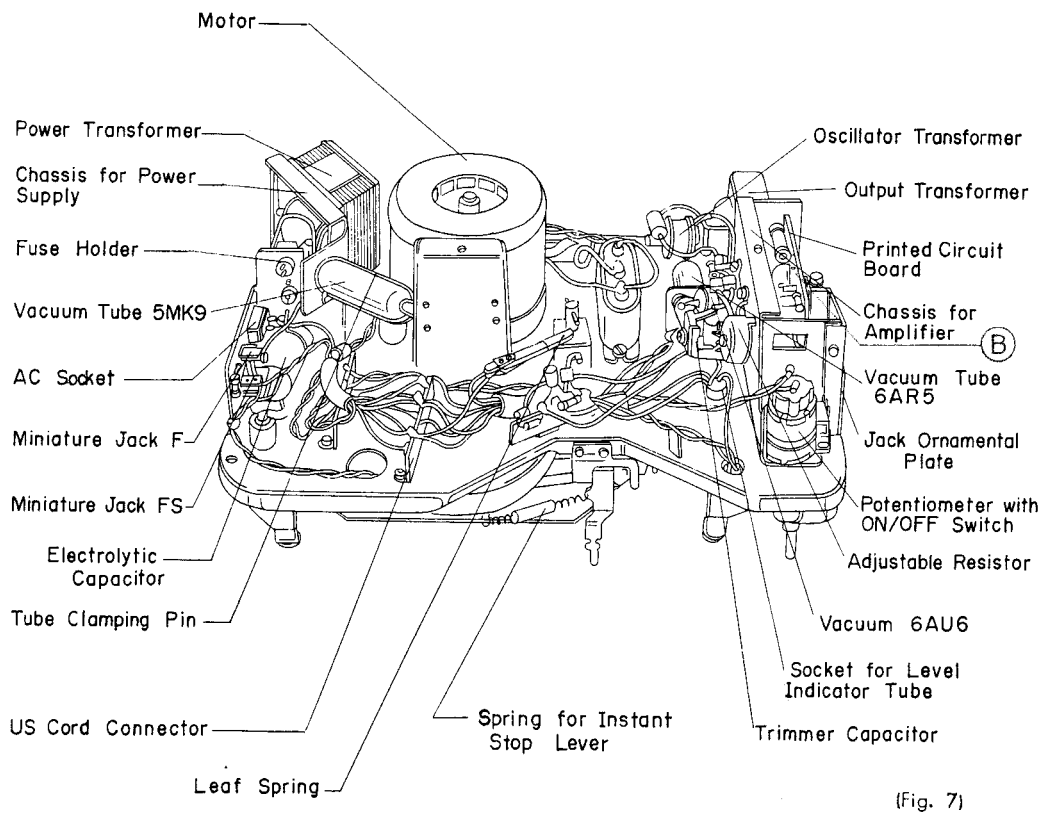
(Fig. 4)



(Fig. 5)


Idler Spring
Speed Selector Spindle
Idler
Idler Spring
Brake Clutch
Feed Reel Spindle
Counter Belt
Pulley Spacer
Counter Belt Pulley
Counter Belt
Tape Index Counter
Panel Mounting Bracket
Record Button
Idler Arm (C)
Lock Lever Guide
Record Lock Lever
Lock Lever Spring
Tape Guide
Tape Bracket
Pad Hinge
Erase Head
Tape Shifter
Record Head
Chassis Supporting Leg
Speaker Lead Wires
Idler
Idler (A)
Motor Pulley
Take-up Reel Spindle
Idler (B)
Idler Guide
Base Plate
Brake Lever
Fast Forward Lever
A
Brake Spring
Selector Spindle
Pinch Lever
Fast Forward Lever Helical Spring
Selector Cam
Rewind Spring
Stepper Arm
Fast Forward Cam Stopper
Stepper Spring
Rewind Control Rod(B)
Pilot Lamp
Head Mounting Plate
Pinch Roller
Pinch Roller Fixture
Capstan Holding Screw
Capstan
Panel Holding Bracket (B)
Tape Guide
Fly Wheel

(Fig. 6)


Motor
Power Transformer
Chassis for Power Supply
Fuse Holder
Vacuum Tube 5MK9
AC Socket
Miniature Jack F
Miniature Jack FS
Electrolytic Capacitor
Tube Clamping Pin
US Cord Connector
Leaf Spring
Spring for Instant Stop Lever
Oscillator Transformer
Output Transformer
Printed Circuit Board
Chassis for Amplifier
B
Vacuum Tube 6AR5
Jack Ornamental Plate
Potentiometer with ON/OFF Switch
Adjustable Resistor
Vacuum 6AU6
Socket for Level Indicator Tube
Trimmer Capacitor

(Fig. 7)

Alignment Procedure

The alignment is to be performed at a tape speed of 7-1/2 ips unless otherwise specified.

A. Azimuth Alignment

1. Connect an 8 Ω load resistor in parallel with a VTVM terminals and connect the VTVM to the Speaker Output Jack (J_4).
2. Place the recorder in play mode. Set the Volume Control at " 7 " to " 8 " on the scale.
3. Playback the 7,000 c/s tone recorded on the SONY alignment tape " B-19-A1 ".
4. Adjust the azimuth alignment screw located on the right side of the Rec/PB Head to obtain the maximum reading on the VTVM.

B. Bias Trap Adjustment

1. Connect plus ⊕ lead of VTVM to one terminal of Trap Coil which is soldered on the Printed Circuit Board, and the minus ⊖ lead to Chassis ground.
2. Place the recorder in record mode without input signal.
3. Adjust core of the Trap Coil to obtain the minimum reading on the VTVM.

C. Recording Bias Adjustment

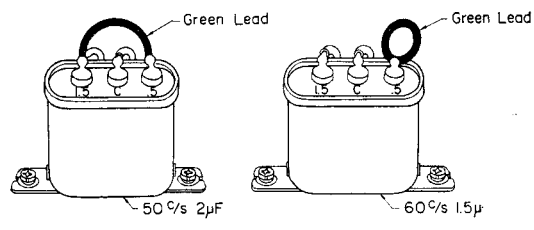
1. Place the recorder in record mode.
2. Connect a VTVM across the winding of the Rec/PB Head.
3. Adjust the Potentiometer (VR_4) so that the VTVM reads approx. 35 V.

D. Recording Level Adjustment

1. Connect a VTVM to J_3 (Monitor Jack).
2. Stop the Bias Oscillation by shortcircuiting the Muting Switch (SW_4) (marked with Ⓐ in Fig. 6) with a clip.
3. Place the recorder in record mode.
4. Feed 1,000 c/s signal of −60 dBs (0.775 mV) through J_2 (MIC Jack) and adjust Volume Control (VR_1) so that the VTVM indicates −8dBs (300 mV).
5. Adjust the potentiometer (VR_3, marked with Ⓑ in Fig. 7) so that the pointer of Level Meter is just on the boundary between red portion and black portion while monitoring output as read on the VTVM is kept at −8dBs (300 mV) by re-adjustment of VR_1 if necessary.

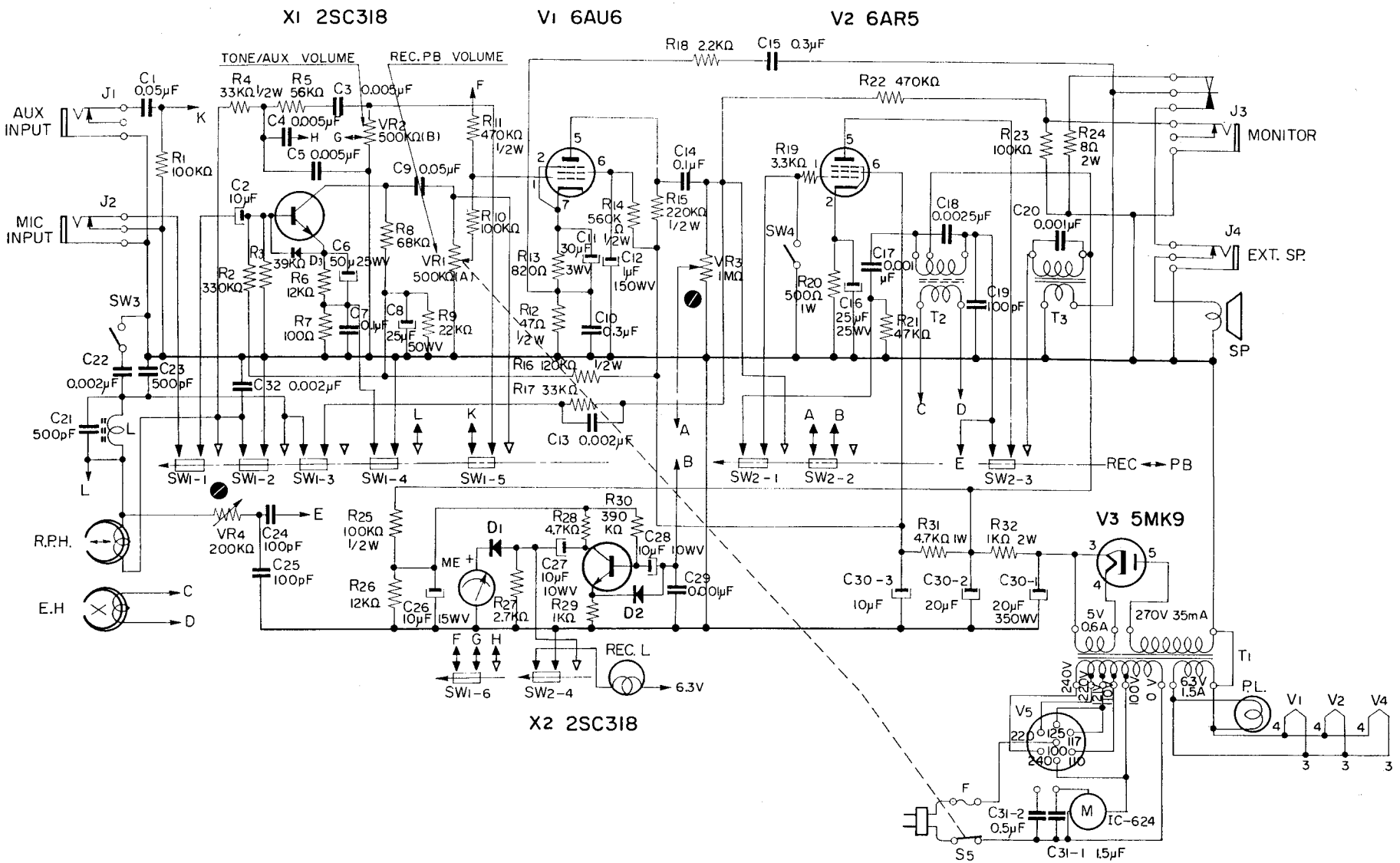
Modification to different power line frequency

	For 50 c/s	For 60 c/s
1. Connection between two terminals of the metal cased capacitor (MP, C_{31})	Connected (2μF)	Disconnected (1.5μF)
2. Capstan	(N10) 0-041-012-03	(N11) 0-041-227-04
3. Pinch Roller	(P4) 0-027-476-01	(P5) 0-027-477-01



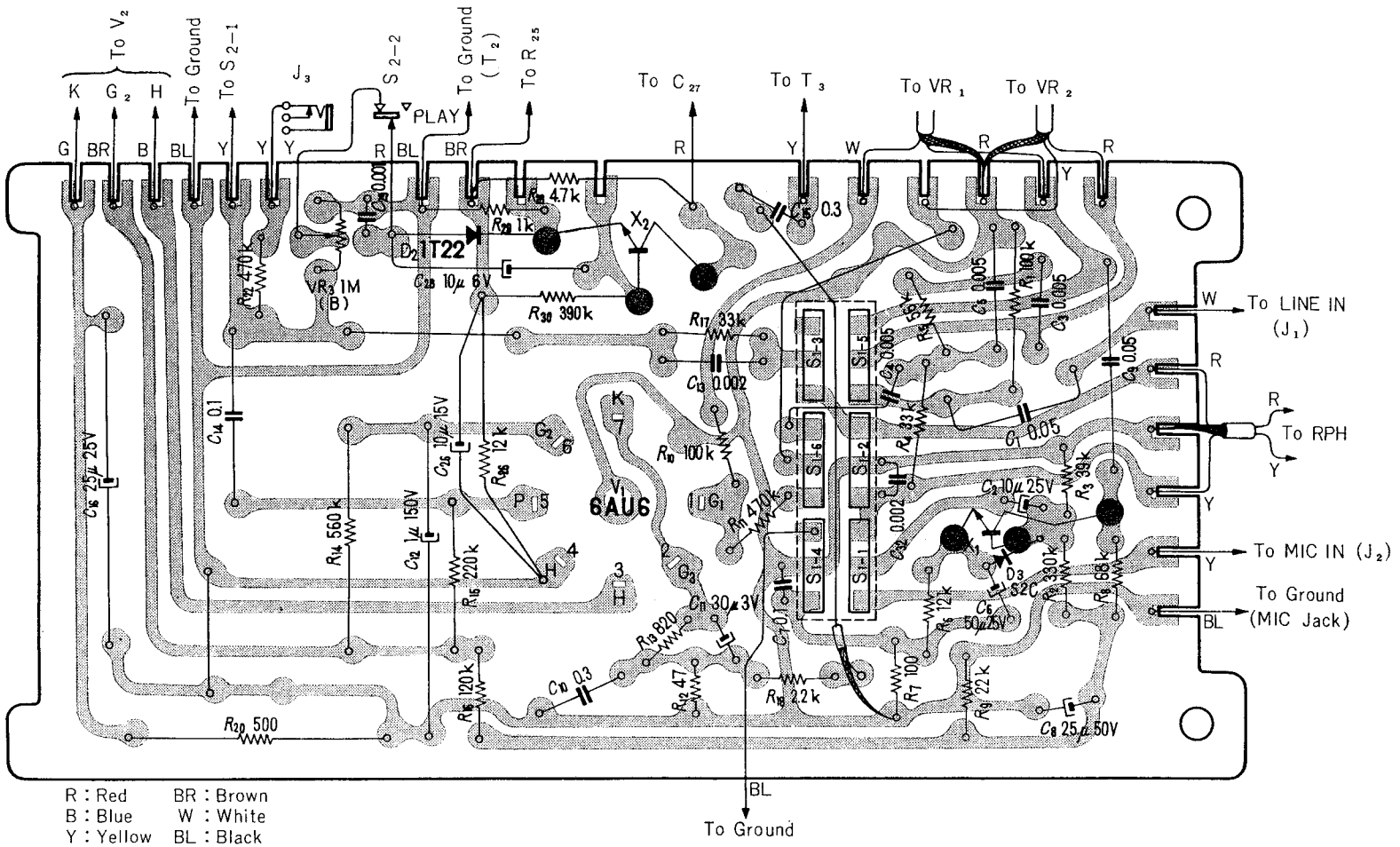
(Fig. 8)

Schematic Diagram



Mounting Diagram

—Printed Side—



R : Red BR : Brown
B : Blue W : White
Y : Yellow BL : Black

Parts List

I. ELECTRICAL PARTS

Symbol No.	Description	Q'ty	Remarks
	E. Electrical Parts (General)		
E1	Printed Circuit Board	1	A8
E2	Lamp Socket	2	
E3	Fuse Holder	1	
E4	Vacuum Tube Socket	1	
E5	〃 〃 〃	2	
E6	Crank Pin	2	
E7	Terminal Strip 1L-5P	1	
E8	〃 〃 2L-5P	3	
E9	AC Socket	1	
E10	Terminal Strip 1L-2P	1	
	Transistor		
X_1	Transistor 2SC318-3	1	
X_2	〃 2SC318-2	1	
V_1	Vacuum Tube 6AU6	1	
V_2	〃 〃 6AR5	1	
V_3	〃 〃 5MK9	1	
D_1	Diode 1T206 (1T213)	1	
D_2	〃 1T211	1	
D_3	〃 S2C	1	
RPH	Record/Playback Head PP18-28	1	
EH	Erase Head EF18-27	1	
T_1	Power Transformer	1	
T_2	Bias OSC Transformer	1	
T_3	Output Transformer	1	
L	Trap Coil 20 mH	1	
SW_1	Record/Playback Switch 6P-2t	1	
SW_2	〃 4P-2t	1	
SW_3	Rec. Equalizer Switch	2	
SW_4	Muting Switch	2	
SW_5	Power Switch	1	
J_1	Aux. Input Jack (MINI)	2	
J_2	MIC Input Jack 〃	2	
J_3	Monitor Jack 〃 (HS)	1	
J_4	Ext. Speaker Jack 〃	1	
SP	Speaker	1	
PL	Pilot Lamp	2	
ME	Level Meter	1	
M	Motor IC-624	1	
F	Fuse 1.5A	1	
VS	AC Voltage Selector	1	
	Resistor		
$VR_{1,2}$	Volume Control (combination type) A500 KΩ + B500 KΩ w/switch	1	
VR_3	Adjustable Resistor 1 MΩ	1	
VR_4	〃 〃 200 KΩ	1	
R_1	Carbon 100 KΩ RD¼L ±5%	1	
R_2	〃 330 KΩ 〃 〃	1	
R_3	〃 39 KΩ 〃 〃	1	
R_4	Composition 33KΩ RC½ ±10%	1	
R_5	Carbon 56 KΩ RD¼L ±5%	1	
R_6	〃 12 KΩ 〃 〃	1	
R_7	Composition 100Ω RC½ ±10%	1	
R_8	Carbon 68 KΩ RD¼L ±5%	1	
R_9	〃 22 KΩ 〃 〃	1	
R_{10}	〃 100 KΩ 〃 〃	1	
R_{11}	Composition 470 KΩ RC½ ±10%	1	
R_{12}	Composition 47Ω RC½ ±10%	1	
R_{13}	Carbon 820Ω RD¼L ±5%	1	
R_{14}	Composition 560 KΩ RC½ ±20%	1	
R_{15}	〃 220 KΩ 〃 〃	1	
R_{16}	〃 120 KΩ 〃 ±10%	1	
R_{17}	Carbon 33 KΩ RD¼L ±5%	1	
R_{18}	〃 2.2KΩ 〃 〃	1	
R_{19}	〃 3.3KΩ 〃 〃	1	
R_{20}	〃 500Ω RD1L 〃	1	
R_{21}	〃 47 KΩ RD¼L 〃	1	
R_{22}	〃 470 KΩ 〃 〃	1	
R_{23}	〃 100 KΩ 〃 〃	1	
R_{24}	〃 8Ω RD2SP ±5%	1	
R_{25}	Composition 100 KΩ RC½ 〃	1	
R_{26}	Carbon 12 KΩ RD¼L 〃	1	
R_{27}	〃 2.7KΩ 〃 〃	1	
R_{28}	〃 4.7KΩ 〃 〃	1	
R_{29}	〃 1 KΩ 〃 〃	1	
R_{30}	〃 390 KΩ 〃 〃	1	
R_{31}	〃 4.7KΩ RD1P ±20%	1	
R_{32}	〃 1 K 〃 ±5%	1	
	Capacitor		
C_1	Mylar 0.05μF 50WV ±10% (MFL)	1	
C_2	Electrolytic 10μF 25WV	1	
C_3	Mylar 0.005μF 50WV ±20% (MFL)	1	
C_4	〃 〃 〃 〃 〃	1	
C_5	〃 〃 〃 〃 〃	1	
C_6	Electrolytic 50μF 25WV	1	
C_7	Mylar 0.1μF 35WV ±30, 20% (MFL)	1	
C_8	Electrolytic 25μF 50WV	1	
C_9	Mylar 0.05μF 50WV ±10% (MFL)	1	
C_{10}	0.3μF 50WV ±30, 20% (〃)	1	
C_{11}	Electrolytic 30μF 3WV	1	
C_{12}	〃 1μF 150WV	1	
C_{13}	Mylar 0.002μF 50WV ±10% (MFL)	1	
C_{14}	Oil Paper 0.1μF 400WV 〃	1	
C_{15}	Mylar 0.3μF 50WV 〃 (MFL)	1	
C_{16}	Electrolytic 25μF 25WV	1	
C_{17}	Oil Paper 0.001μF 400WV ±10% Polyethylene	1	
C_{18}	0.0025μF 600WV ±10%	1	
C_{19}	100PF 600WV ±20%	1	
C_{20}	Oil Paper 0.001μF 400WV ±10% Polyethylene	1	
C_{21}	500PF 250WV ±5%	1	
C_{22}	0.002μF 100WV ±10%	1	
C_{23}	Mica 500PF 500WV ±10%	1	
C_{24}	Polyethylene 100PF 600WV ±20%	1	
C_{25}	〃 〃 〃 〃	1	
C_{26}	Electrolytic 10μF 15WV	1	
C_{27}	〃 10μF 10WV	1	
C_{28}	〃 10μF 10WV	1	
C_{29}	Mylar 0.001μF 50WV ±20% (MFL)	1	
C_{30}	Electrolytic 20+20+10μF 350WV	1	
$C_{31-1,2}$	MP 1.5μF+0.5μF 250WV ±10%	1	
C_{32}	Mylar 0.002μF 50WV ±10%	1	

II. K. CABINET & APPEARANCE ITEM

Symbol No.	Description	Q'ty	Remarks	Symbol No.	Description	Q'ty	Remarks
K1	Cabinet Assembly	1		K13	Fiber Washer for Reel Panel	2	
K2	Specification Label	1		K14	Head Cover Mounting Screw Post (Left)	1	H11
K3	Indicating Plate for Control Panel	1		K15	Special Washer (B) (for Fixing the Deck to Cabinet)	4	
K4	Function Selector Knob Assembly	1		K16	Felt for Function Selector Knob	1	
K5	Control Panel	1		K17	Fast Forward Lever and Instant Stop Lever Knob	2	
K6	Reel Panel	1		K18	Panel Spacer	4	
K7	Head Cover Holding Pin	1		K19	Speed Selector Knob	1	
K8	Head Cover	1	H3	K20	Set Screw for Speed Selector Knob	1	
K9	Volume Control Knob	1		K21	Stroboscope Disc	1	P9
K10	Escutecheon for Input Jack	1		K22	Felt for Reel Panel	1	
K11	// for Output Jack	1					
K12	Woolen Paper C	2					

III. MECHANICAL BLOCK

Symbol No.	Description	Q'ty	Remarks	Symbol No.	Description	Q'ty	Remarks
	A. Amplifier Block			G2	Base Plate Assembly	1	
				G3	Tape Counter Mounting Post	2	
A1	Amplifier Chassis Assembly	1		G4	Spacer for Pulley Shaft	1	
A2	Chassis for Power Supply	1		G5	Sleeve for Tape Counter Belt	1	
A3	Lead Wire Retainer	1		G6	Tape Counter Belt Pulley	2	
A4	Restoring Spring for Rec. Lever	1	U3	G7	Tape Counter Belt	2	
A5	Spring for Rec. Lever	1	U4	G8	Felt Washer for Panel	3	
A6	Microphone Jack Ornamental Plate (A)	1		G9	Woolen Paper (120 mm length)	2	
A7	// // // // (B)	1		G10	4ϕ Paper Washer for Counter Belt	2	
A8	Printed Circuit Board	1	E1	G11	Cushion for Level Meter	1	
A9	Slide Switch Spacer	2		G12	Leaf Spring Holder	1	
A10	Cord Retainer	1		G13	Fast Forward Cam Stopper	1	
A11	Vacuum Tube Fixture	1		G14	Tape Counter	1	
A12	Miniature Jack Spacer	4		G15	Tape Counter Pulley Shaft	1	
A13	Vacuum Tube Retaining Spring	2		G16	MIC Jack Holding Bracket	1	
A14	Oscillation Transformer Holding Bracket	1			**H. Head Deck**		
	B. Brake Mechanism			H1	Head Base Plate	1	
B1	Instant Stop Arm Assembly	1		H2	Head Mounting Bracket	1	
B2	Instant Stop Lever Assembly	1		H3	Head Cover Holding Pin	1	K7
B3	Instant Stop Lever Guide	1		H4	Panel Mounter	1	
B4	Instant Stop Lever Spring	1		H5	Tape Pad Shifter	1	
B5	Rewind Spring for Instant Stop Lever	1		H6	Spacer for Erase Head	1	
B6	Brake Block	1		H7	Head Shield Plate for Erase Head	1	
B7	Brake Lever	1		H8	Tape Retainer	1	
B8	Brake Block Spring	1		H9	Tape Guide (A)	1	
B9	Brake Felt	1		H10	Hinge Spring for Tape Pad	1	
B10	Brake Spring	1		H11	Head Cover Holding Pin	1	K14
				H12	Tape Pad for Erase Head	1	
	F. Function Selector Mechanism			H13	Head Shield Plate for Rec./P.B. Head	1	
F1	Fast Forward Cam	1		H14	Head Adjustment Spring	1	
F2	Function Selector Cam Assembly	1		H15	Head Adjustment Screw	1	
F3	Stepper Arm Assembly	1		H16	Tape Guide (Right)	1	
F4	Function Selector Cam Shaft	1		H17	Tape Guide (Right) Spring	1	
F5	Push Rod (A) for Function Selector Cam	1		H18	Tape Pad for Rec./P.B. Head	1	
F6	Stepper Arm Shaft	1					
F7	Rewind Spring for Function Selector Cam	1			**L. Idler Mechanism**		
F8	Setting Screw for Function Selector Cam	2		L1	Capstan Idler Assembly	1	
F9	Stepper Arm Spring	1		L2	Idler Shaft (C) for Rewind Idler (Right)	1	
F10	Push Rod for Rewind	1		L3	Idler Plate for Take-up Idler	1	
F11	Restoring Spring for Fast Forward	1		L4	Take-up Idler Assembly	1	
				L5	Rewind Idler Assembly	1	
	G. Deck						
G1	Leg Plate Assembly	1					

Parts List

Symbol No.	Description	Q'ty	Remarks
L5-1	Tire	(2)	
L5-2	Idler	(2)	
L6	Idler Arm (E) Assembly	1	
L7	Capstan Idler Arm	1	
L8	Tone Control Knob	1	
L9	Idler Pressure Spring	1	
L10	Idler Guide Bracket	1	
L11	Idler Shifting Arm Guide	2	
L12	5φ Washer for Capstan Idler	2	
L13	Pull Rod for Idler Plate	1	
L14	Motor Pulley Set Screw	1	
L15	Helical Spring (A) for Idler Plate	1	
L16	〃 (E) for Idler Plate A	1	
L17	Spring (H) for Idler Arm	1	
L18	Oil Retainer for Take-up (Capstan) Idler	2	
L19	Paper Washer for Take-up (Capstan) Idler 5φ	2	
L20	Paper Washer for Rewind Idler 6φ	3	
L21	Idler Guide	1	
L22	Idler Spring	2	
	M. Motor		
M1	Motor Pulley	1	
	N. Capstan and Flywheel		
N1	Capstan Shaft Assembly	1	
N2	Capstan Bearing Retainer	1	
N3	Capstan Bearing Dust Cover	1	
N4	Driver Shaft Bearing	1	
N5	Oil Retainer Cover (Paper Washer)	1	
N6	Oil Absorber Felt for Flywheel	1	
N7	Oil Retainer (for Flywheel Shaft)	1	
N8	Capstan Shaft	1	
N9	Capstan Screw	1	
N10	Capstan A 50 c/s	1	Z15
N11	Capstan B 60 c/s	1	Z16
	P. Pinch Roller Mechanism		
P1	Pinch Lever Assembly	1	
P2	Pinch Roller Spacer	1	
P3	Spring for Pinch Lever	1	
P4	Pinch Roller A	1	
P5	〃 B	1	
P6	Pinch Roller Oil Retainer	1	
P7	Record Lock Lever Shaft	1	U9
P8	Pinch Roller Fixture	1	
P9	Stroboscope Disc	1	K21
	Q. Reel Table Mechanism		
Q1	Take-up Spindle Drum Assembly	1	
Q2	Take-up Reel Shaft	1	
Q3	Feed Spindle Deck	1	
Q4	Feed Reel Shaft	1	
Q5	Feed Spindle Spacer	1	
Q6	Spring for Rec. Push Button	1	
Q7	Friction Plate for Feed Reel Table	1	
Q8	Feed Reel Table Assembly	1	
Q9	Take-up Reel Table Assembly	1	
	S. Speed Selector Mechanism		
S1	Speed Selector Shaft Spring	1	
S2	Speed Selector Shaft	1	
S3	Taper Pin 2×20 (for Speed Selector)	2	
	U. Recording Mechanism		
U1	Recording Lever Assembly B	1	
U2	Record Lock Button Assembly	1	
U3	Restoring Spring for Rec. Lever	1	A4
U4	Spring for Rec. Lever	1	A5
U5	Record Lock Lever	1	
U6	Lock Lever Guide	1	
U7	Push Button Collar	1	
U8	Rec. Lock Lever Spring	1	
U9	Record Lock Lever Shifter	1	P7
U10	Recording Lever Assembly C	1	
	Z. Accessories & Miscellaneous		
Z1	Tack Label A	1	
Z2	〃 B	1	
Z3	Instruction Manual	1	
Z4	Inspection Card	1	
Z5	Microphone F96 (LM)	1	
Z6	Recording Tape "Super 5"	1	
Z7	Reel R-5A	1	
Z8	Connection Cord RK-36	1	
Z9	Power Cord DK-14	1	
Z10	SONY Oil OL-1K	1	
Z11	Splicing Tape PS-2	1	
Z12	Crystal Earphone CE-3	1	
Z13	Accessory Bag	2	
Z14	Desiccant	1	
Z15	Capstan 50 c/s	1	N10
Z16	〃 60 c/s	1	N11
Z17	Pinch Roller (A)	1	
Z18	〃 (B)	1	
Z19	Carton	1	
Z20	Polyethylene Bag	1	
Z21	Cushion for Carton	1	
Z22	Tie-up Belt	1	

Screws, Washers and Miscellaneous

	Symbol No.	Description	Q'ty		Symbol No.	Description	Q'ty
Screw	B⊕3×8	Reel Panel	2		RF⊕3×6	Idler Guide Mounting Bracket	2
	〃 3×6	Control Panel	2		B⊕3×6	Leg	3
	RF⊕4×12	Cabinet	4		RF⊕4×8	Head Deck	2
	〃 4×8	Motor	2		B⊕4×8	〃	1
	〃 3×5	MP Capacitor	2		〃 3×6	〃	1
	〃 3×5	Idler Guide	4		K⊕2×26	〃	1
	〃 3×8	Stepper Arm	1		RF⊕4×6	Power Supply	4
	〃 3×6	Idler Guide (B)	1		〃 3×18	Tape Index Counter	2

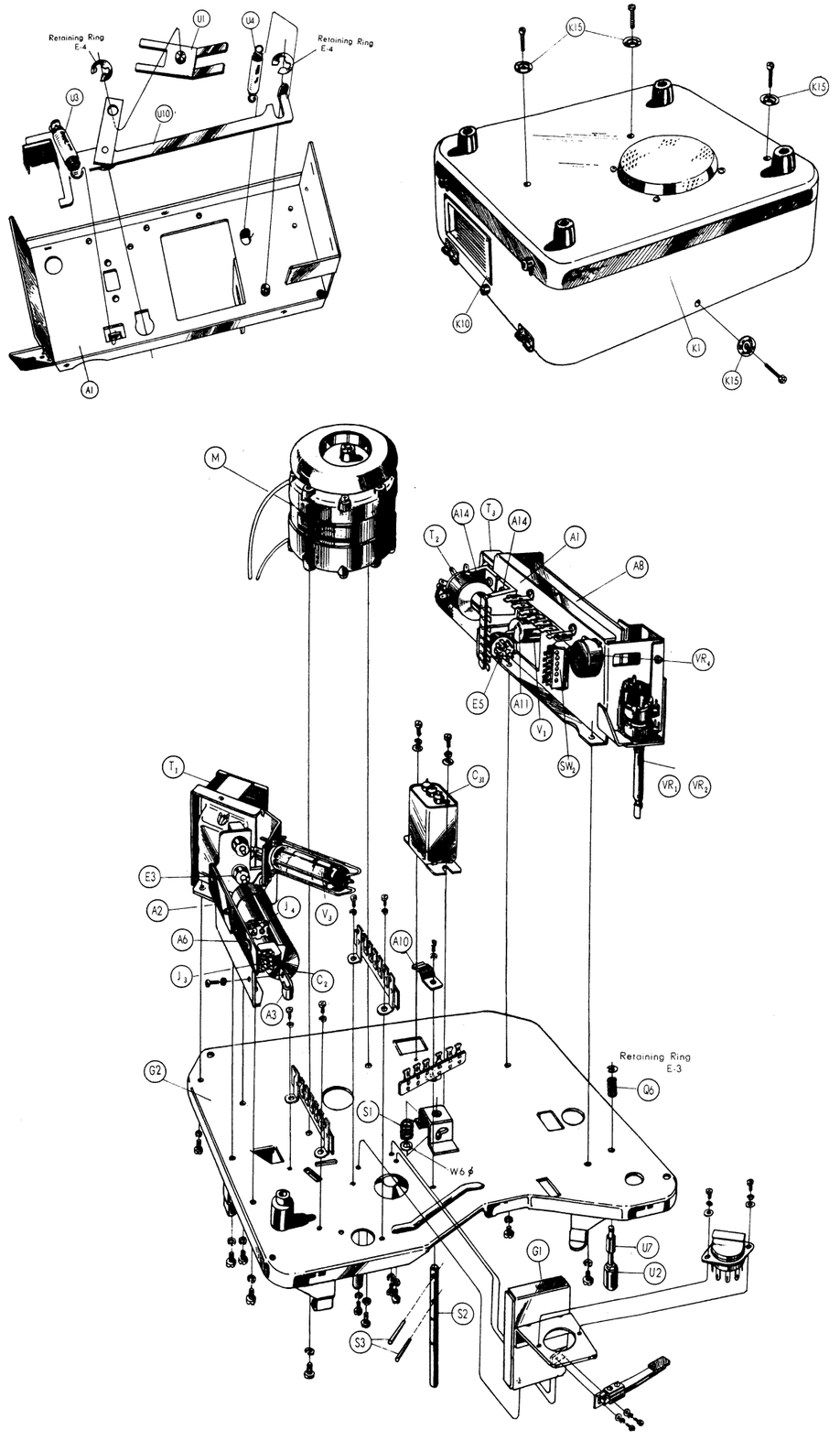
Parts List

	Symbol No.	Description	Q'ty
	RF⊕3×6	Amplifier Chassis	4
	〃 3×6	Terminal Strip, 2L-5P	6
	〃 3×6	Lock Lever Guide	1
	〃 3×6	Wire Retainer	1
	〃 3×6	Instant Stop Lever Guide	2
	〃 3×6	Pinch Lever	2
	〃 3×6	Head Deck	7
	〃 2.6×6	〃	2
	T⊕3×12	〃	1
	〃 3×6	〃	1
	R⊕2.6×5	〃	1
	RF⊕2×4	〃	4
	T⊕3×5	Feed Reel Table Ass'y	1
	〃 3×5	Take-up Reel Table Ass'y	1
	RF⊕2×4	Leaf Spring	2
	〃 2×4	Leaf Spring (Equalizer Switch)	2
	K⊕2×5	Erase Head	2
	RF⊕3×5	Idler Spring	2
	〃 3×6	Instant Stop Arm	1
	〃 3×6	Input Jack	2
	〃 3×6	AC Socket	2
	〃 3×6	Block Electrolytic Capacitor	2
	〃 3×6	Vacuum Tube Socket	2
	〃 3×6	Fuse Holder	1
	RF3×6	Lead Retainer	1
	RF⊕3×6	Oscillation Transformer Holding Plate	2
	〃 2.6×6	Rec/PB Selector Switch	2
	〃 3×6	2L-5P Terminal	2
	〃 3×8	Output Transformer (T_3)	2
	〃 3×6	Vacuum Tube Socket	2
	〃 3×6	Printed Circuit Board	2
	RK⊕4×18	Handle	2
	B⊕3×8	Ventilation Net	4
	RK⊕3×8	Lock	2
	R⊕3×8	Lock Holding Plate	2
	K⊕3×16	Speaker Baffle Board	3
	R⊕2.6×14	Cabinet Feet (B)	2
	〃 2.6×10	〃	1
	RK⊕2.6×8	Removal Hinge	8
	RF⊕4×20	Cabinet Feet	4
	R⊕2.1×6.3	MIC Retainer	2
Wood Screw	R⊕2.1×6.3	Escutcheon (A)	4
	〃 2.1×6.3	Escutcheon (B)	4
	K⊕2.1×6.3	Speaker Baffle Board	3
	R⊕2.7×7	Plastic Part on Cabinet Cover	2
	〃 2.1×10	Cord Retainer	4
	2.7×7	Rubber Band	2
	R⊕2.7×7	MIC Retaining Band	2
	K⊕2.4×7	MIC Cord Retainer	2
Nail	R1×6	Serial No. Plate	4
Star Washer	3φ	Instant Stop Lever Guide	2
	3φ	Head Deck	2
Retaining Ring	E-5	Push Button	1
		Idler Arm (E)	1
	E-5	Idler Arm	1
	E-3	Brake Block	1
		Idler (A) & (B)	2
		Counter Pulley	1
		Idler	2
	E-5	Rec. Lock Lever	1
	E-5	Instant Stop Lever	1
	E-5	Head Deck	1
	E-5	Speed Selector Shaft	1
	E-4	Cam Shaft Ass'y	1
	E-4	Rec. Lever (C)	1
		Rec. Lever (C)	1
Revet	K3×8	Cabinet Reinforcing Bracket	8

	Symbol No.	Description	Q'ty
Washer	2φ (small)	Head Deck	4
	2φ (small)	Leaf Spring	2
	2φ (small)	Leaf Spring (Equalizer Switch)	2
	2.6φ	Cabinet Feet (B)	2
	2.6φ	Removal Hinge	8
	3φ	Head Cover Holding Stud	1
	3φ	MP Capacitor	2
	3φ	Stepper Arm	2
	3φ	Idler Guide (B)	1
	3φ	Amplifier Chassis	3
	3φ	Speaker	4
	3φ	Block Electrolytic Capacitor	2
	3φ	Output Transformer (T_3)	2
	3φ	Amp. Chassis	2
	3φ	Ventilation Net	4
	3φ	Lock Holding Plate	2
	3φ	Speaker Baffle Board	3
	3φ	Rubber Band	2
	3φ	MIC Retaining Band	2
	3φ (small)	Head Deck	1
	3φ (small)	Instant Stop Arm	1
	4φ	Cabinet Feet	4
	6φ (t 0.5)	Head Deck	1
	6φ (t 0.3)	Head Deck	1
	6φ (t 0.5)	Speed Selector Ass'y	1
	6φ (t 0.5)	Idler Arm	1
Spring Washer	SW2φ	Leaf Spring	2
	SW2φ	Leaf Spring (Equalizer Switch)	2
	SW2.6φ	Head Deck	2
	SW2.6φ	Rec/PB Selector Switch	2
	SW3φ	MP Capacitor	2
	SW3φ	Idler Guide	4
	SW3φ	Stepper Arm	1
	SW3φ	Idler Guide (B)	1
	SW3φ	Idler Guide Mounting Bracket	2
	SW3φ	Belt Pulley Shaft	1
	SW3φ	Tape Index Counter	2
	SW3φ	Amplifier Chassis	4
	SW3φ	Terminal Strip 2L-5P	6
	SW3φ	Lock Lever Guide	1
	SW3φ	Wire Retainer	1
	SW3φ	Pinch Lever	2
	SW3φ	Head Deck	5
	SW3φ	Idler Spring	2
	SW3φ	Instant Stop Arm	1
	SW3φ	Block Electrolytic Capacitor	2
	SW3φ	Vacuum Tube Socket	2
	SW3φ	Lead Retainer	1
	SW3φ	Oscillation Transformer Holding Plate	2
	SW3φ	2L-5P Terminal	2
	SW3φ	Output Transformer (T_3)	2
	SW3φ	Vacuum Tube Socket	2
	SW3φ	Amp. Chassis	2
	SW4φ	Head Deck	2
	SW4φ	Reel Table Spindle	2
	SW4φ	Power Supply	4
Nut	N2.6φ	Cabinet Feet (B)	2
	N2.6φ	Removal Hinge	8
	N3φ	Belt Pulley Shaft	1
	N3φ	Stepper Arm	1
	N3φ	Control Panel	1
	N3φ	Speaker	4
	N3φ	Vacuum Tube Socket	2
	N3φ	〃	2
	N3φ	Ventilation Net	4
	N3φ	Lock Holding Plate	2
	N4φ	Reel Table Spindle	2
	N4φ	Cabinet Feet	4
	N4φ (large)	Recording Button	1
	N3φ	Speaker Baffle Board	3

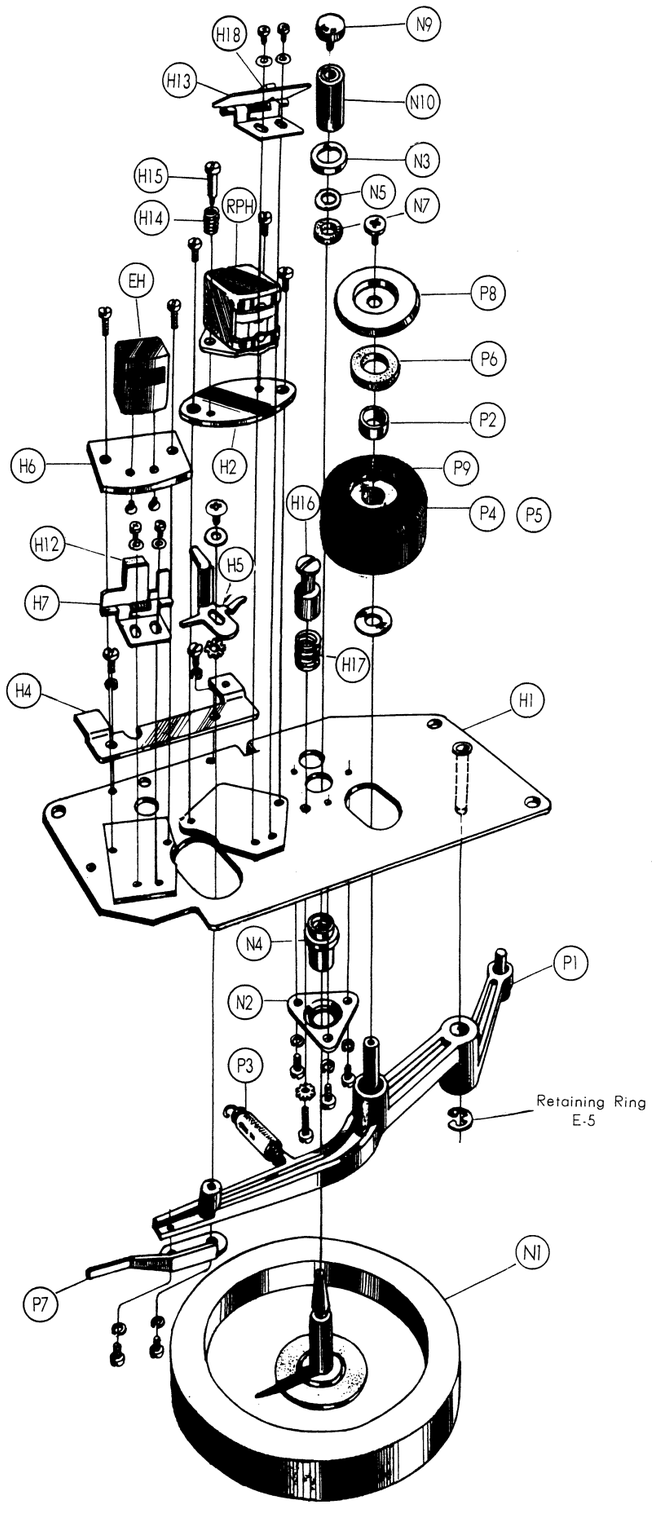
Exploded Diagram

(1)



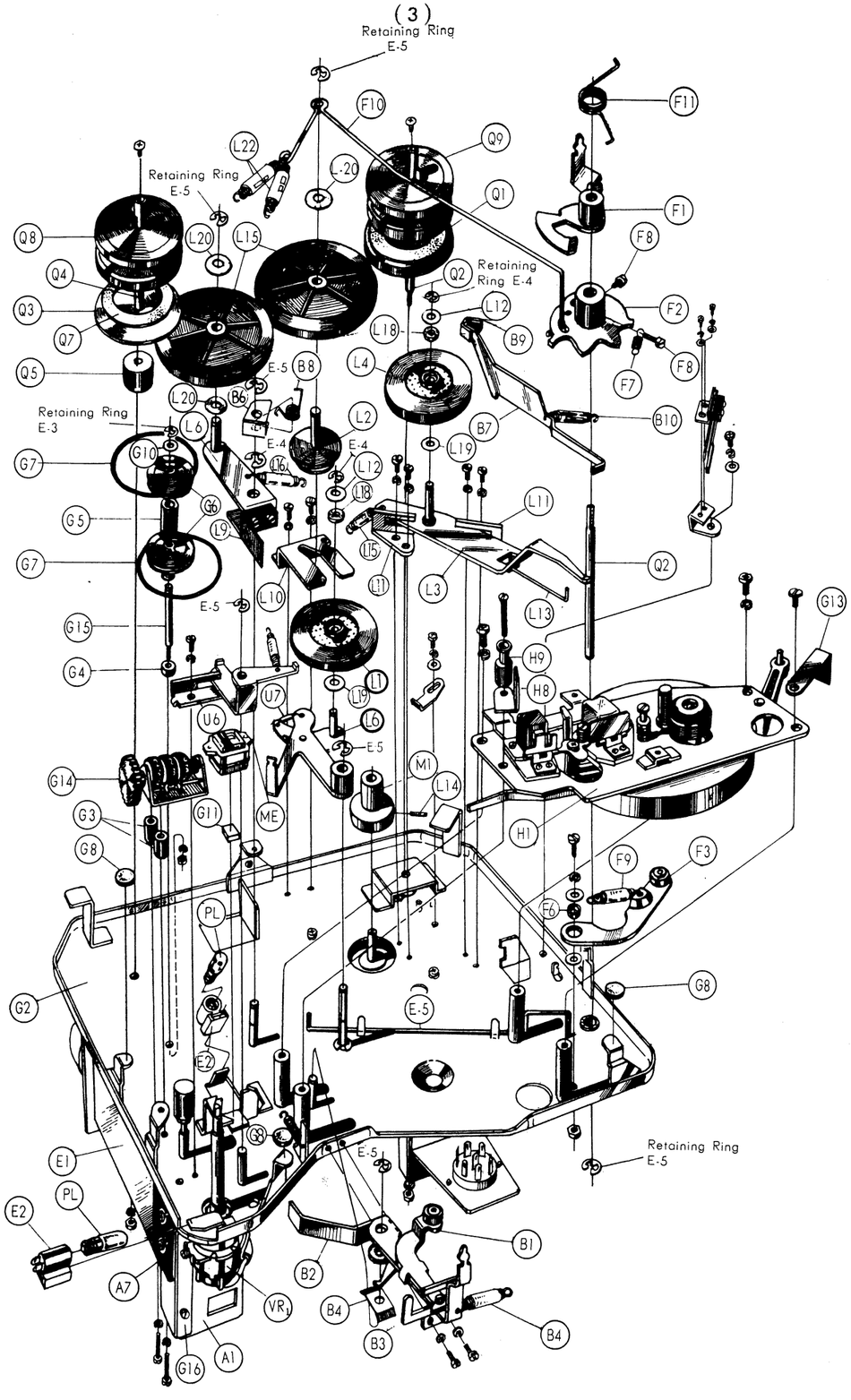
Exploded Diagram

(2)



Exploded Diagram

(3)



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